

## ABSTRACT

A fine-tuning assembly for an optical grating in an optical fiber is provided. The  
5 fiber is mounted under tension in a hollow structure which has a sliding member  
longitudinally slideable therein. The fiber is attached to both the sliding member  
and hollow structure. A slanted passage is provided in the sliding member,  
forming a small angle with the transversal, and a wedge member is slideably  
inserted in this passage. To fine-tune the spectral response of the grating, the  
10 wedge member is transversally displaced without any longitudinal displacement,  
preferably by the action of screws, thereby pushing on its walls to longitudinally  
slide the sliding member and adjust the tension in the fiber.

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